

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121021\
 Data File : VD071256.D
 Acq On : 10 Dec 2021 17:19
 Operator : VA/SY
 Sample : M4967-07RE
 Misc : 5.10G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 11 04:41:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

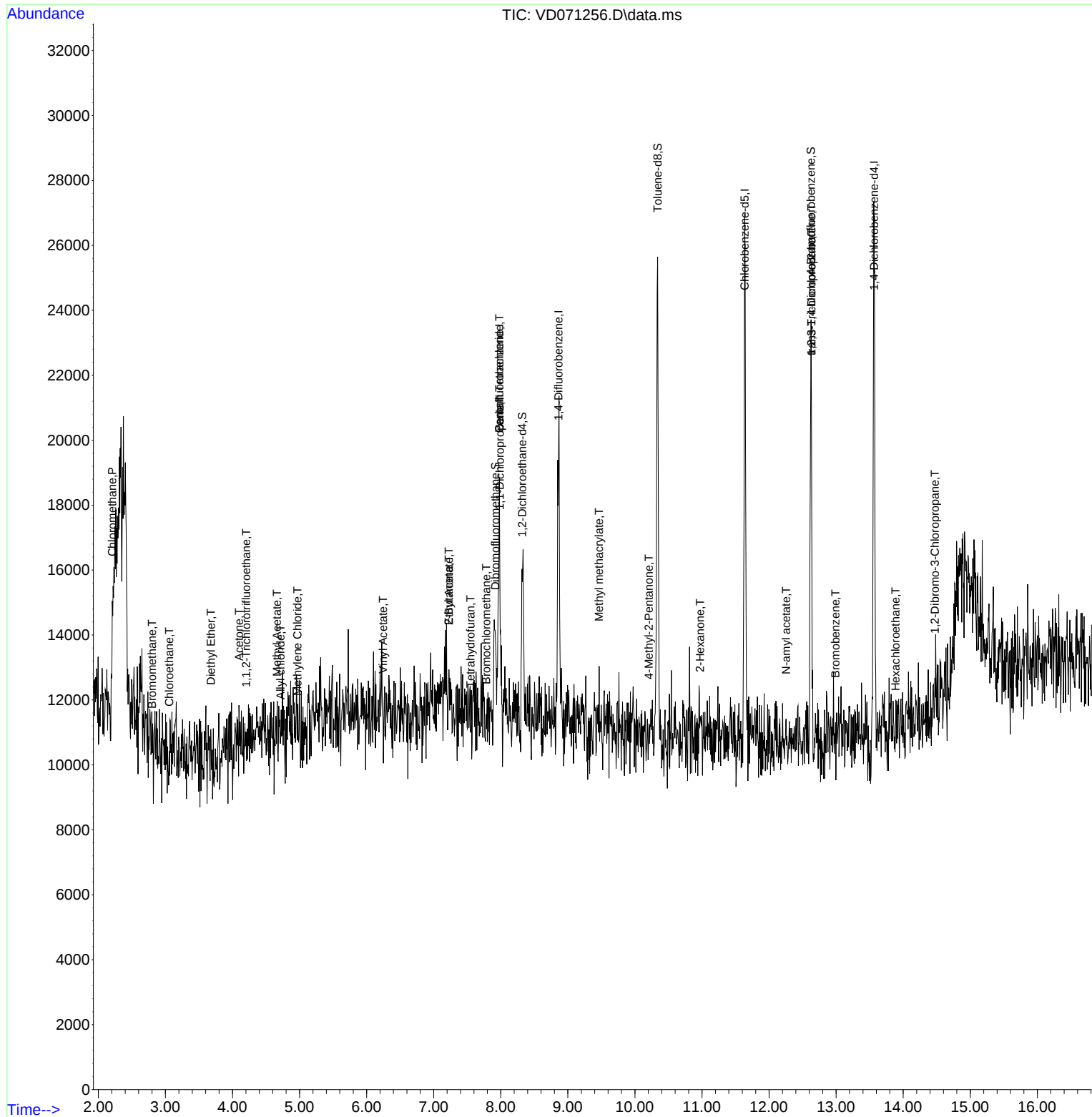
Internal Standards						
1) Pentafluorobenzene	7.979	168	5290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	7773	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	8684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	4316	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	3840	61.86	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 123.72%			
35) Dibromofluoromethane	7.920	113	2398	48.45	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.90%			
50) Toluene-d8	10.337	98	9928	52.71	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 105.42%			
62) 4-Bromofluorobenzene	12.625	95	4122	63.13	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 126.26%			
Target Compounds						Qvalue
3) Chloromethane	2.208	50	254	4.26	ug/l #	68
5) Bromomethane	2.802	94	83	1.73	ug/l	81
6) Chloroethane	3.055	64	55	1.20	ug/l #	39
8) Diethyl Ether	3.679	74	71	2.90	ug/l #	1
9) 1,1,2-Trichlorotrifluo...	4.202	101	57	1.07	ug/l #	19
14) Allyl chloride	4.714	41	119	1.28	ug/l #	69
16) Acetone	4.097	43	60	33.99	ug/l #	40
18) Methyl Acetate	4.661	43	61	1.33	ug/l #	51
20) Methylene Chloride	4.967	84	555	5.11	ug/l #	7
23) Vinyl Acetate	6.243	43	59	27.74	ug/l #	72
25) 2-Butanone	7.226	43	69	31.57	ug/l #	45
28) Bromochloromethane	7.785	49	91	1.95	ug/l #	14
29) Tetrahydrofuran	7.549	42	61	6.19	ug/l #	34
36) 1,1-Dichloropropene	7.985	75	217	2.99	ug/l #	41
37) Ethyl Acetate	7.226	43	69	2.20	ug/l #	66
38) Carbon Tetrachloride	7.979	117	498	6.95	ug/l #	12
41) Methacrylonitrile	7.426	41	56	Below Cal	#	1
48) Methyl methacrylate	9.467	41	66	2.15	ug/l #	1
51) 4-Methyl-2-Pentanone	10.208	43	139	34.10	ug/l #	34
59) 2-Hexanone	10.973	43	197	40.94	ug/l #	22
74) N-amyl acetate	12.255	43	119	6.93	ug/l #	40
76) 1,2,3-Trichloropropane	12.631	75	2292	55.74	ug/l #	1
77) Bromobenzene	12.990	156	136	2.01	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.631	75	2292	121.09	ug/l #	18
90) Hexachloroethane	13.884	117	70	1.34	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.472	75	60	7.16	ug/l #	4

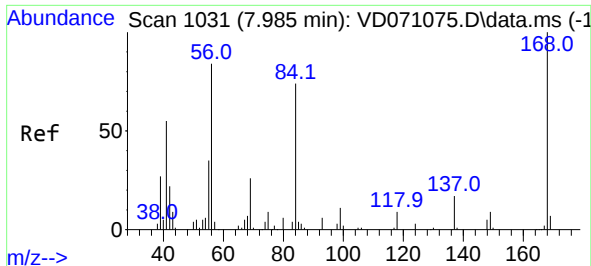
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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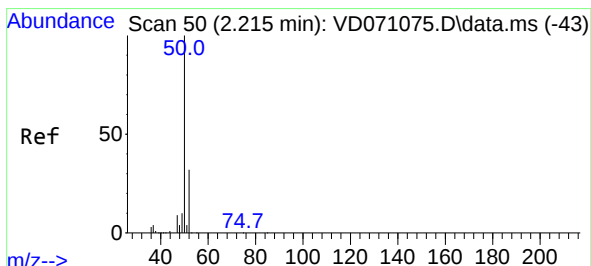
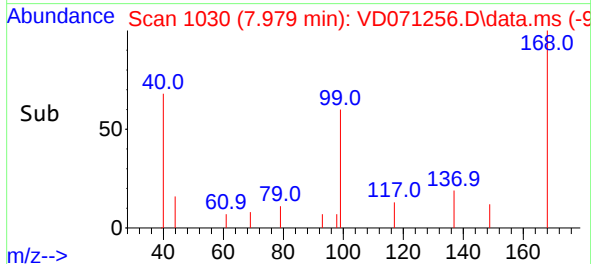
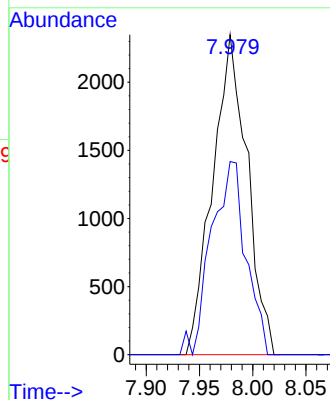
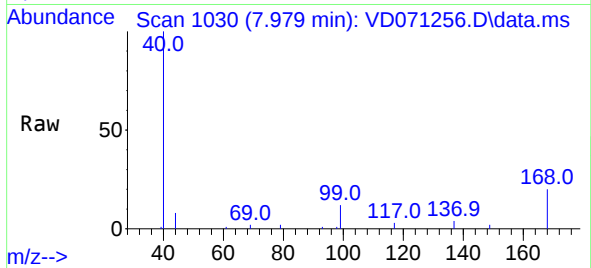




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

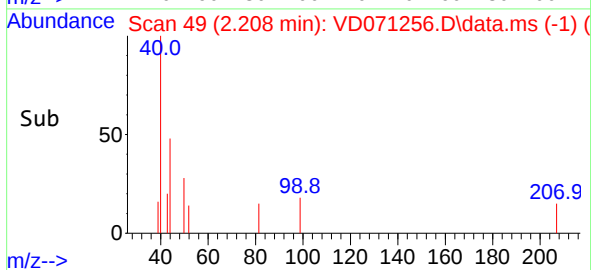
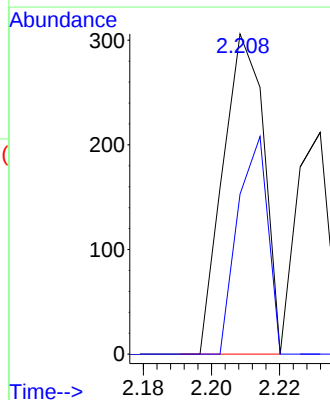
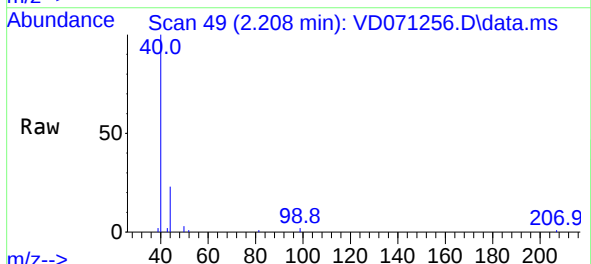
Instrument :
MSVOA_D
ClientSampleId :

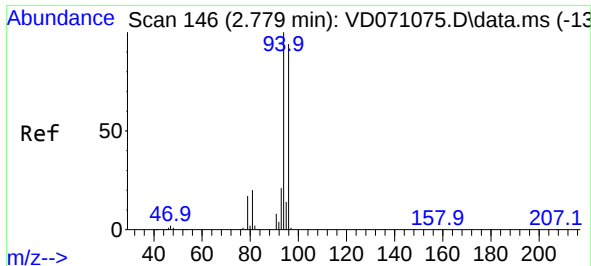
Tgt Ion:168 Resp: 5290
Ion Ratio Lower Upper
168 100
99 60.4 46.6 69.8



#3
Chloromethane
Concen: 4.26 ug/l
RT: 2.208 min Scan# 49
Delta R.T. -0.007 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 50 Resp: 254
Ion Ratio Lower Upper
50 100
52 50.0 25.8 38.8#

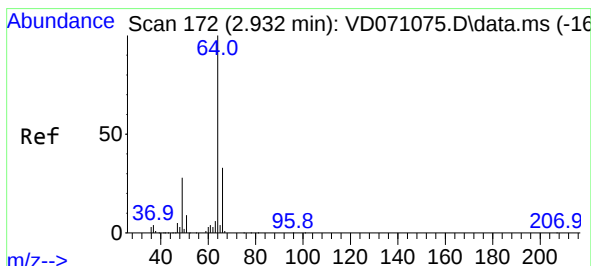
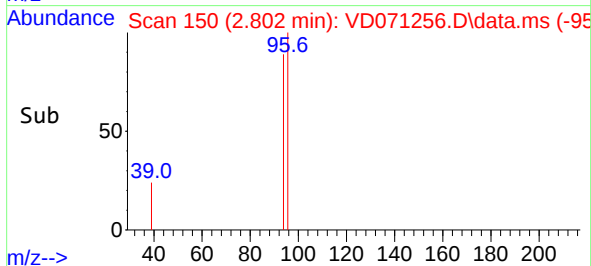
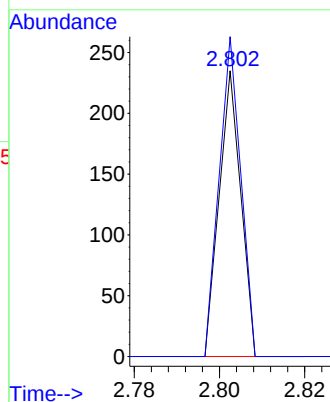
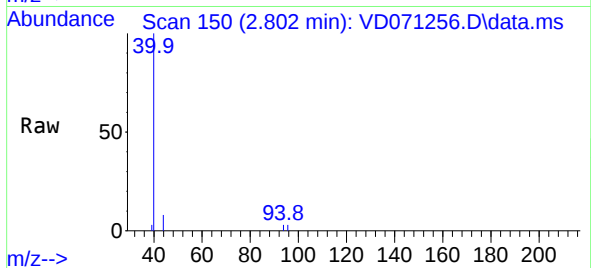




#5
Bromomethane
Concen: 1.73 ug/l
RT: 2.802 min Scan# 11
Delta R.T. 0.023 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

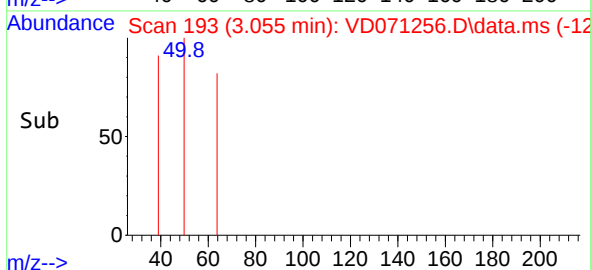
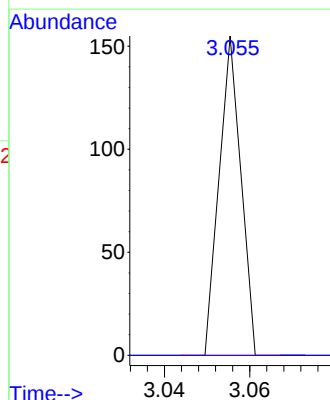
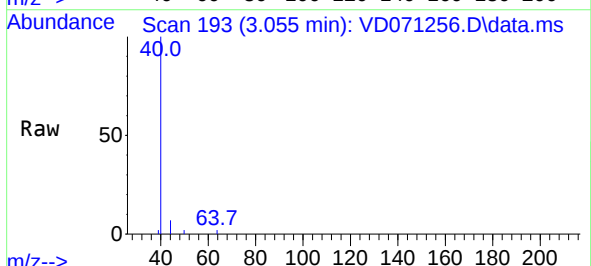
Instrument :
MSVOA_D
ClientSampleId :

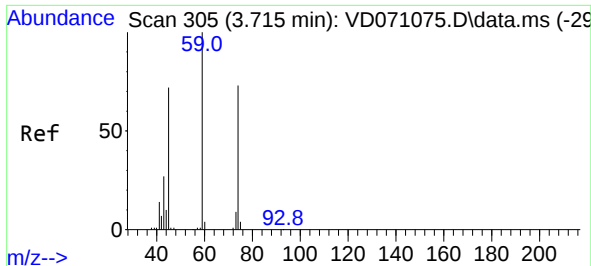
Tgt Ion: 94 Resp: 83
Ion Ratio Lower Upper
94 100
96 111.9 74.8 112.2



#6
Chloroethane
Concen: 1.20 ug/l
RT: 3.055 min Scan# 193
Delta R.T. 0.123 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

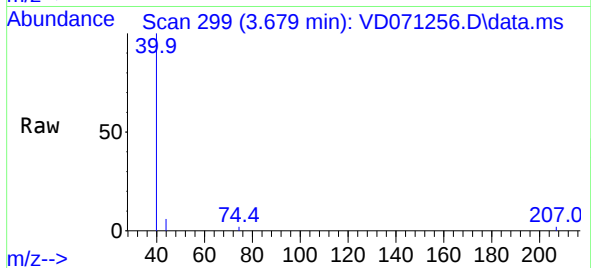
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



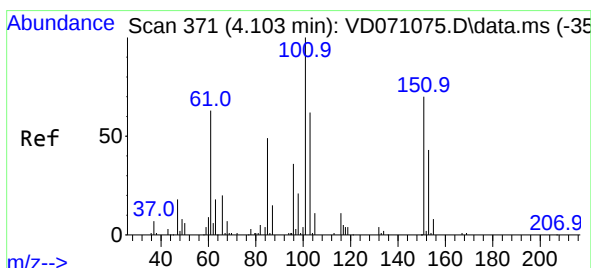
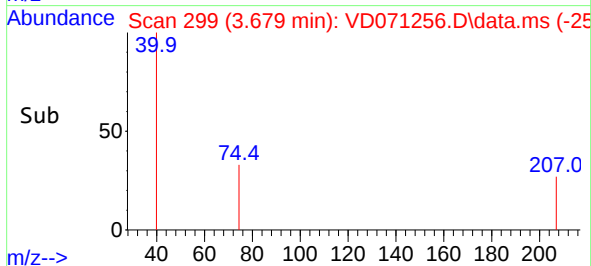
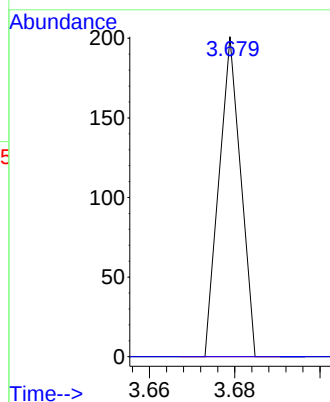


#8
Diethyl Ether
Concen: 2.90 ug/l
RT: 3.679 min Scan# 24
Delta R.T. -0.036 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Instrument :
MSVOA_D
ClientSampleId :

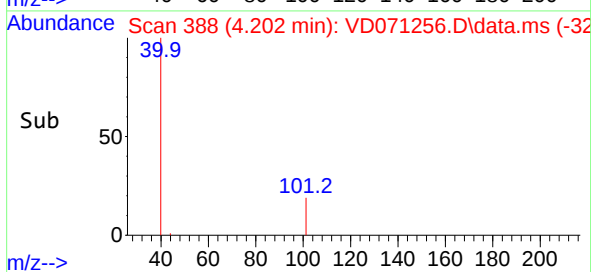
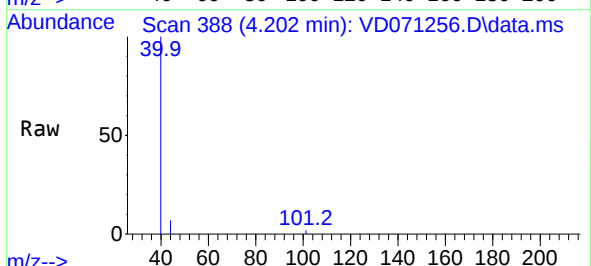
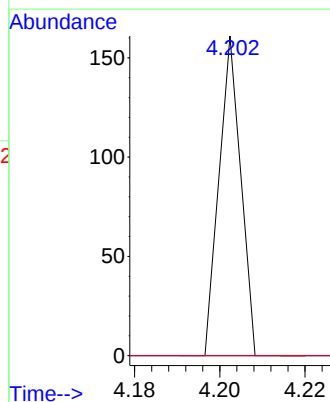


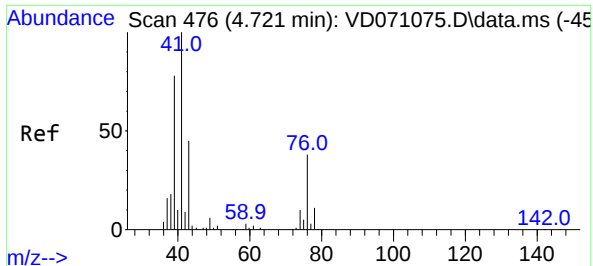
Tgt Ion: 74 Resp: 71
Ion Ratio Lower Upper
74 100
45 0.0 49.6 149.0#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.07 ug/l
RT: 4.202 min Scan# 388
Delta R.T. 0.099 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

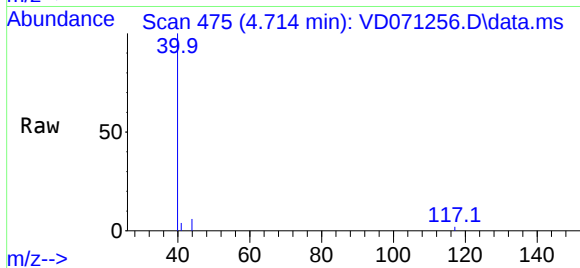
Tgt Ion: 101 Resp: 57
Ion Ratio Lower Upper
101 100
85 0.0 34.8 52.2#
151 0.0 60.4 90.6#



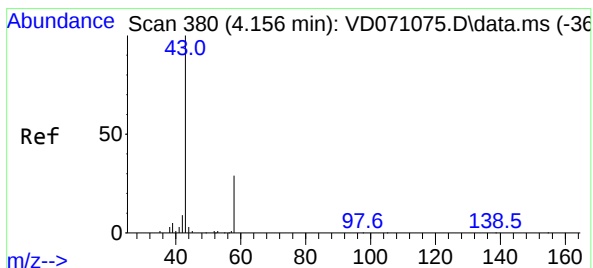
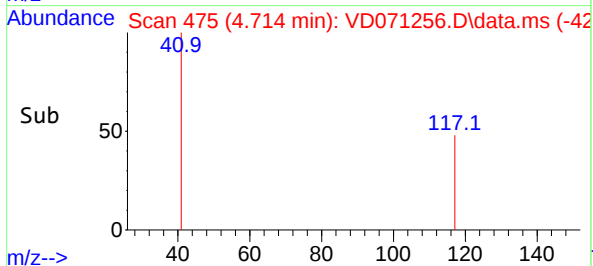
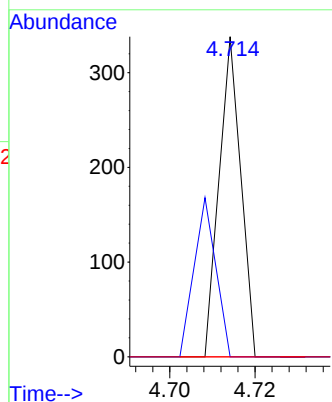


#14
Allyl chloride
Concen: 1.28 ug/l
RT: 4.714 min Scan# 41
Delta R.T. -0.007 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Instrument :
MSVOA_D
ClientSampleId :

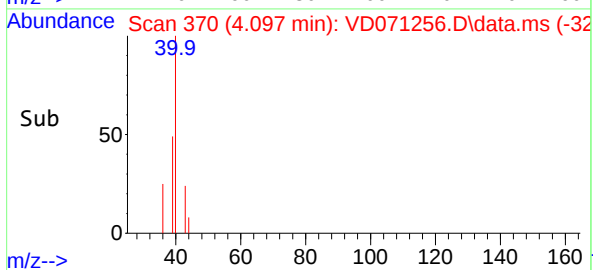
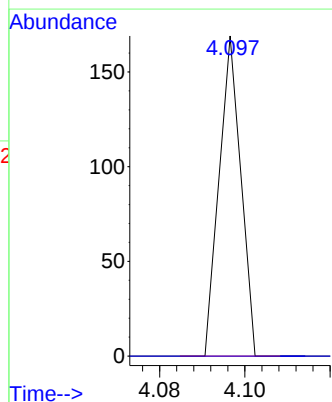
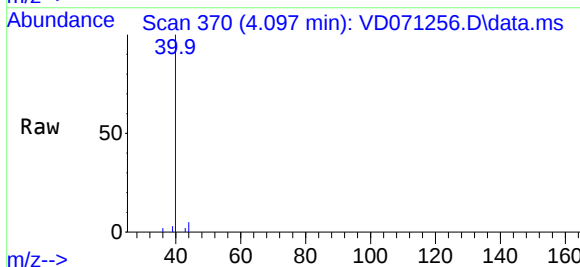


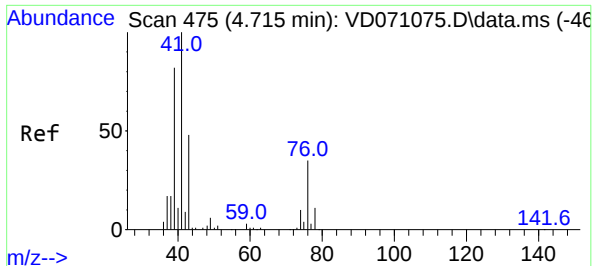
Tgt Ion: 41 Resp: 119
Ion Ratio Lower Upper
41 100
39 49.6 45.6 68.4
76 0.0 30.2 45.4#



#16
Acetone
Concen: 33.99 ug/l
RT: 4.097 min Scan# 370
Delta R.T. -0.059 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

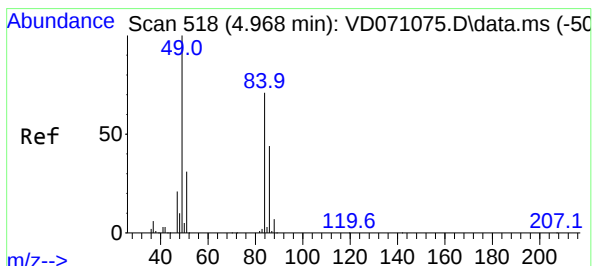
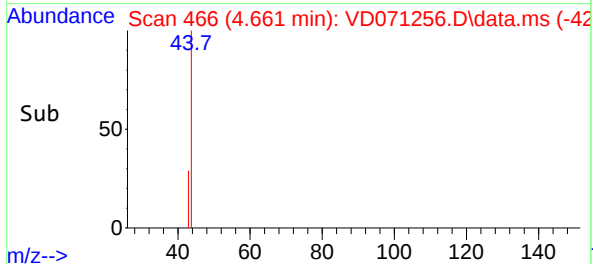
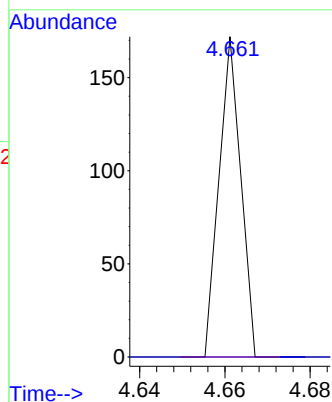
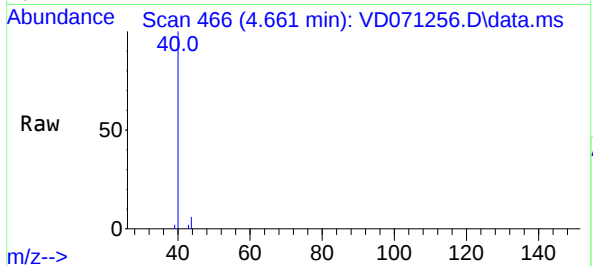




#18
Methyl Acetate
Concen: 1.33 ug/l
RT: 4.661 min Scan# 41
Delta R.T. -0.054 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

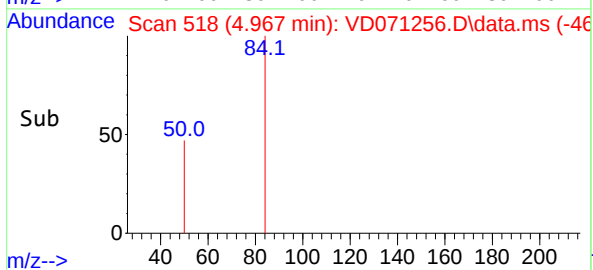
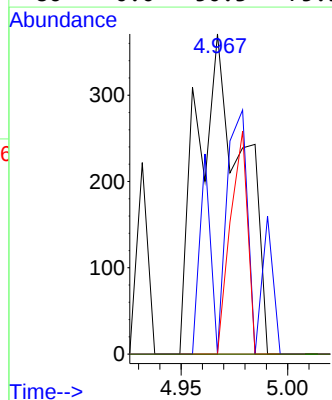
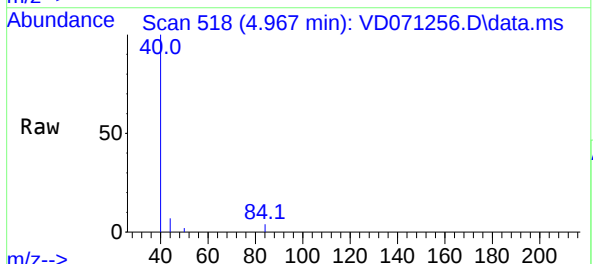
Instrument :
MSVOA_D
ClientSampleId :

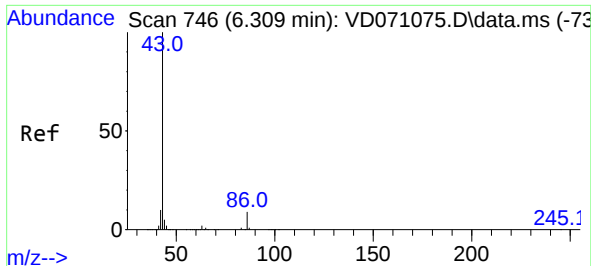
Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 5.11 ug/l
RT: 4.967 min Scan# 518
Delta R.T. -0.001 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

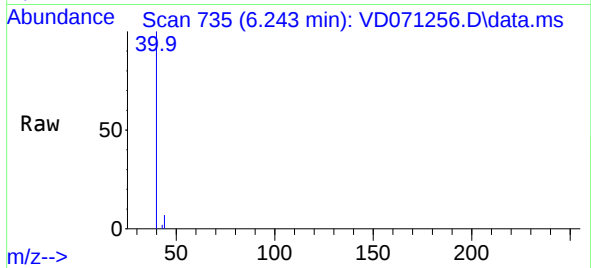
Tgt Ion: 84 Resp: 555
Ion Ratio Lower Upper
84 100
49 0.0 95.8 143.6#
51 0.0 30.9 46.3#
86 0.0 50.3 75.5#



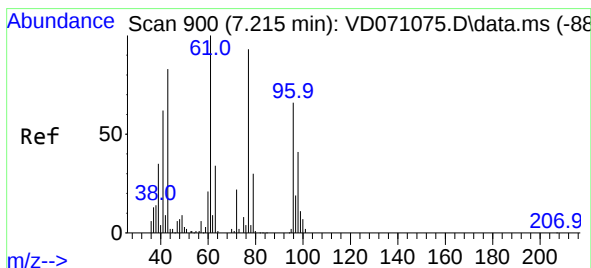
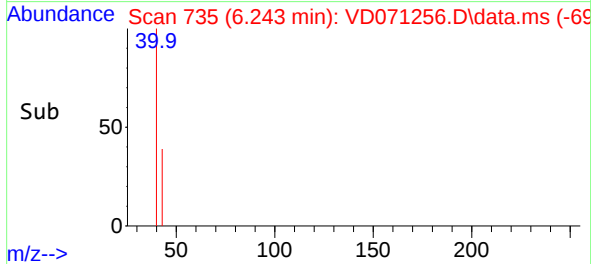
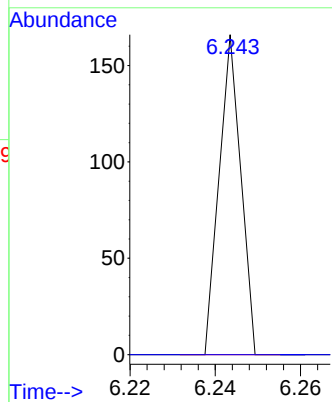


#23
 Vinyl Acetate
 Concen: 27.74 ug/l
 RT: 6.243 min Scan# 71
 Delta R.T. -0.066 min
 Lab File: VD071256.D
 Acq: 10 Dec 2021 17:19

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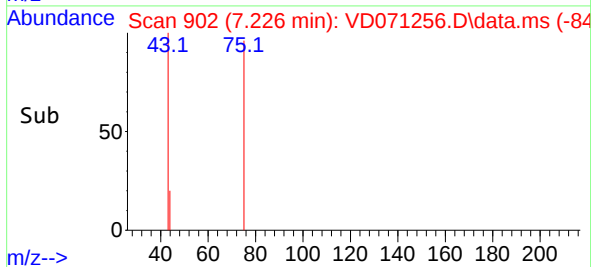
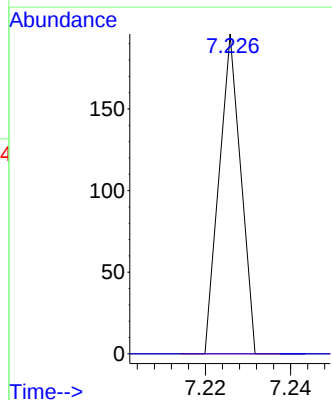
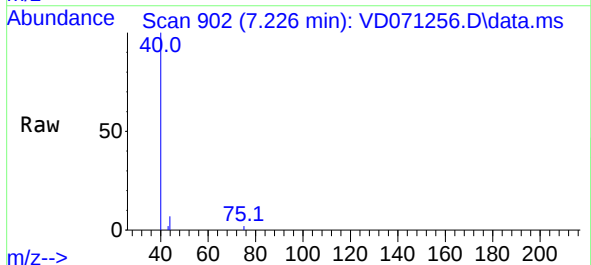


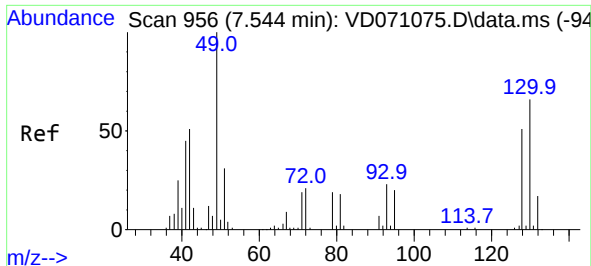
Tgt Ion: 43 Resp: 59
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 31.57 ug/l
 RT: 7.226 min Scan# 902
 Delta R.T. 0.011 min
 Lab File: VD071256.D
 Acq: 10 Dec 2021 17:19

Tgt Ion: 43 Resp: 69
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#28

Bromochloromethane

Concen: 1.95 ug/l

RT: 7.785 min Scan# 91

Delta R.T. 0.241 min

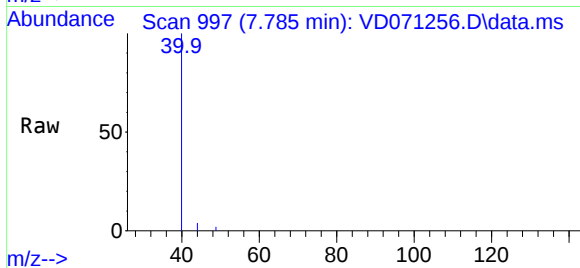
Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

Instrument :

MSVOA_D

ClientSampleId :



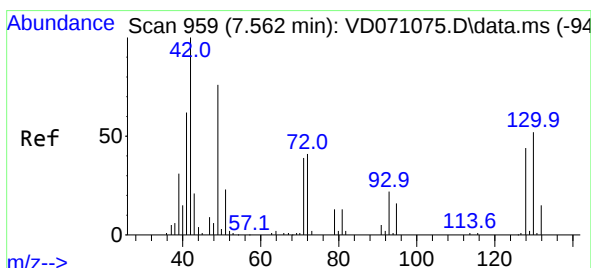
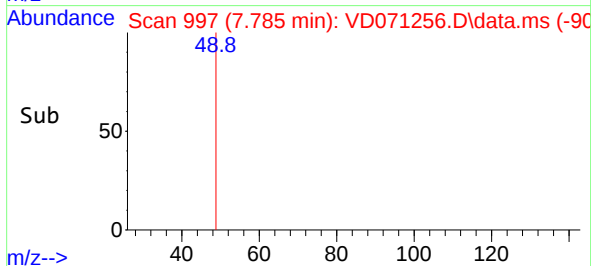
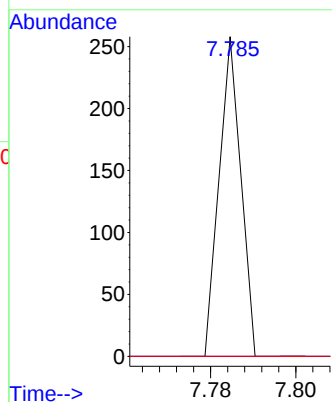
Tgt Ion: 49 Resp: 91

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.2 90.2#



#29

Tetrahydrofuran

Concen: 6.19 ug/l

RT: 7.549 min Scan# 957

Delta R.T. -0.013 min

Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

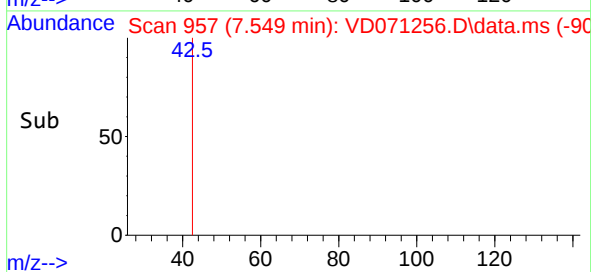
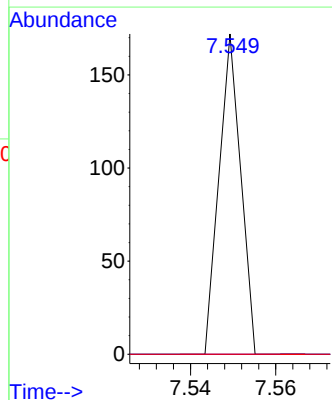
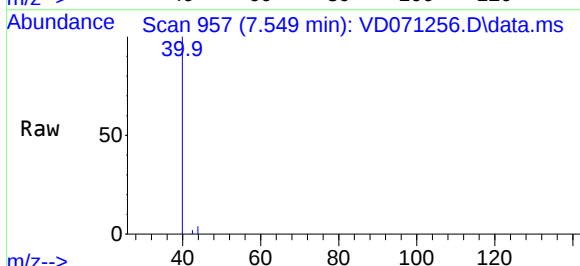
Tgt Ion: 42 Resp: 61

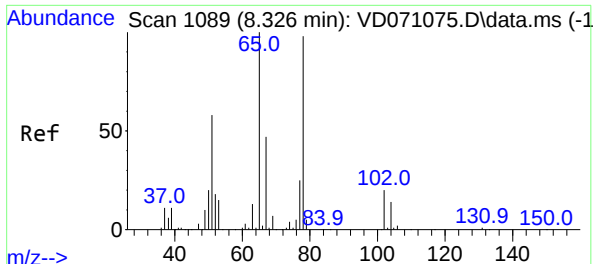
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 61.86 ug/l

RT: 8.320 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

Instrument :

MSVOA_D

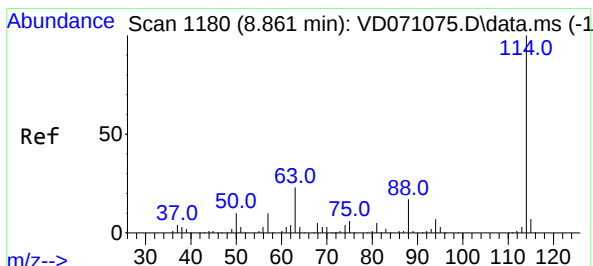
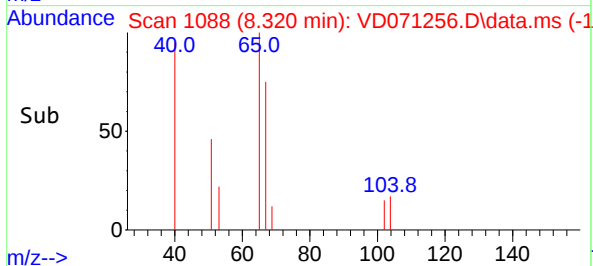
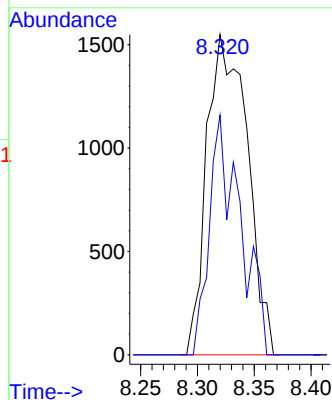
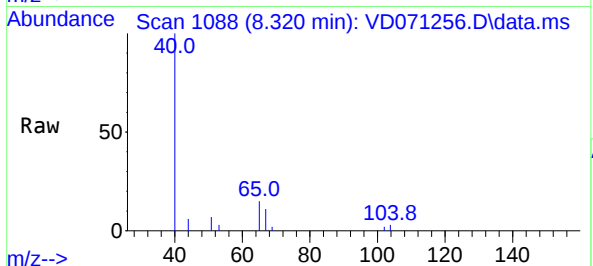
ClientSampleId :

Tgt Ion: 65 Resp: 3840

Ion Ratio Lower Upper

65 100

67 57.4 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

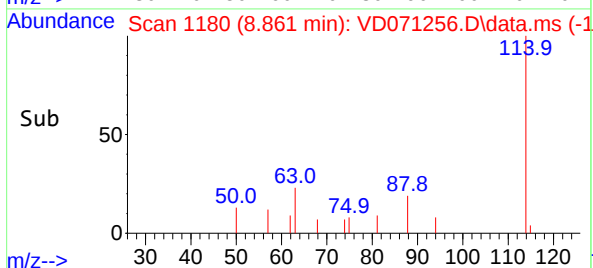
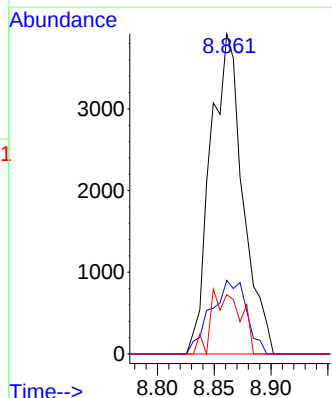
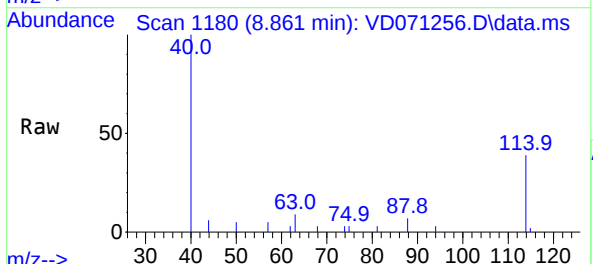
Tgt Ion: 114 Resp: 7773

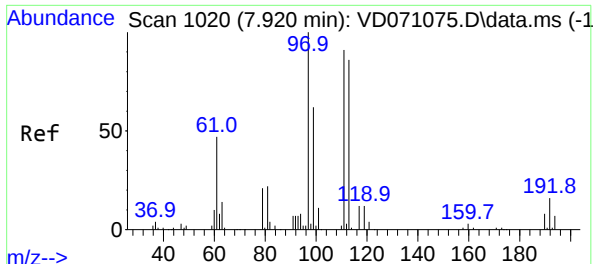
Ion Ratio Lower Upper

114 100

63 23.0 0.0 41.8

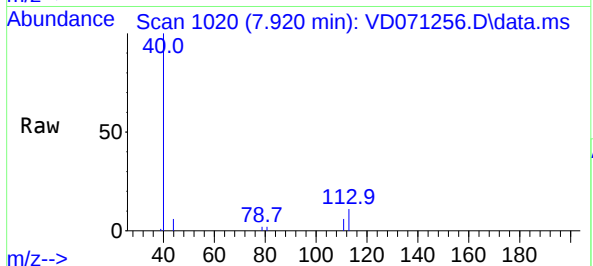
88 18.5 0.0 32.8



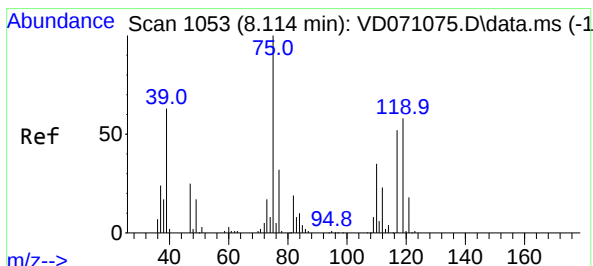
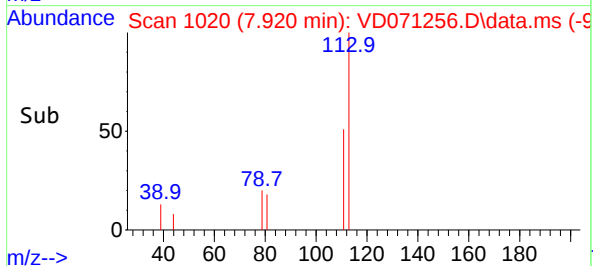
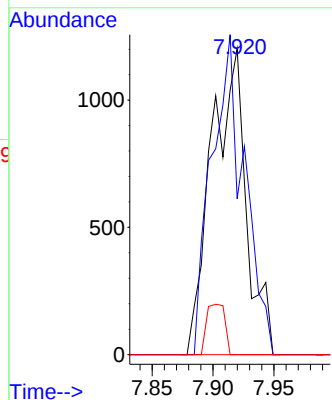


#35
Dibromofluoromethane
Concen: 48.45 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Instrument :
MSVOA_D
ClientSampleId :

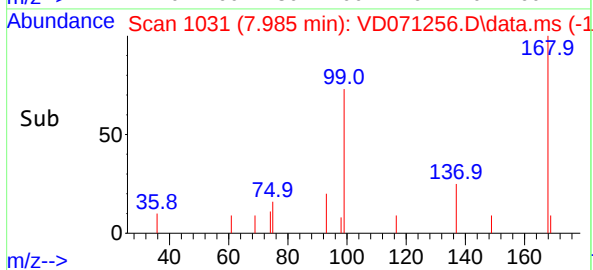
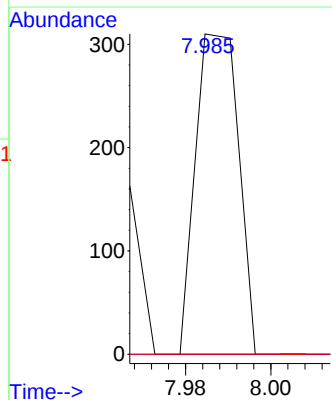
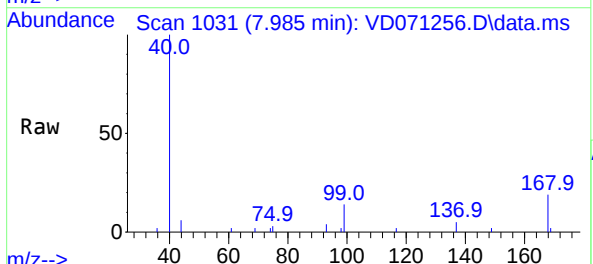


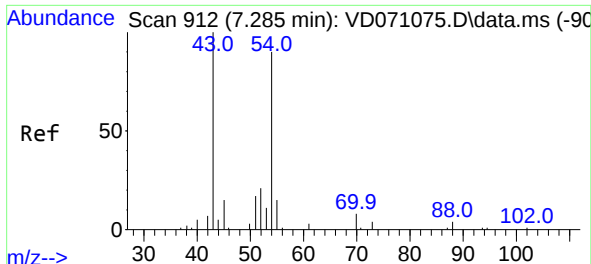
Tgt Ion:113 Resp: 2398
Ion Ratio Lower Upper
113 100
111 98.0 82.0 123.0
192 8.5 15.2 22.8#



#36
1,1-Dichloropropene
Concen: 2.99 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.129 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 75 Resp: 217
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.20 ug/l

RT: 7.226 min Scan# 90

Delta R.T. -0.059 min MSVOA_D

Lab File: VD071256.D

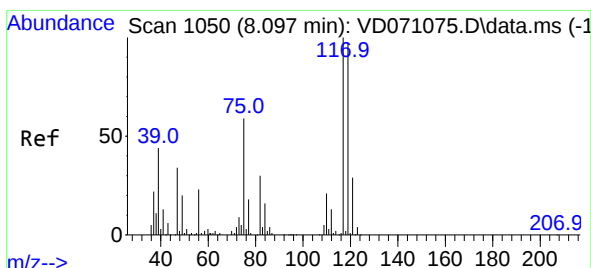
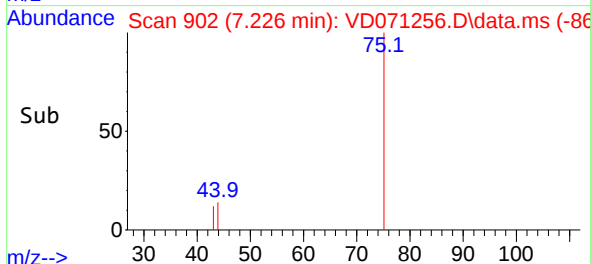
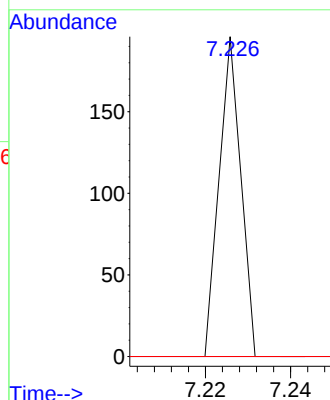
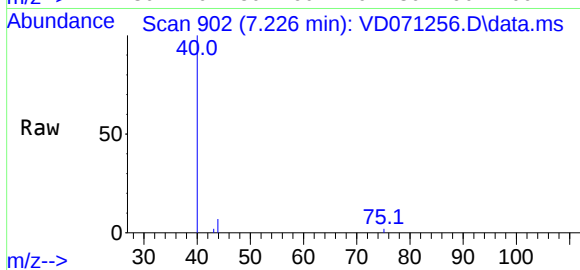
Acq: 10 Dec 2021 17:19

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp:	69
Ion	Ratio	Lower Upper
43	100	
61	0.0	13.0 19.6#
70	0.0	8.7 13.1#



#38

Carbon Tetrachloride

Concen: 6.95 ug/l

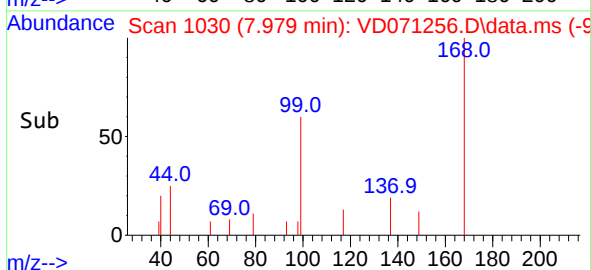
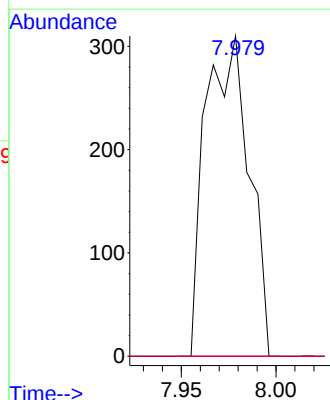
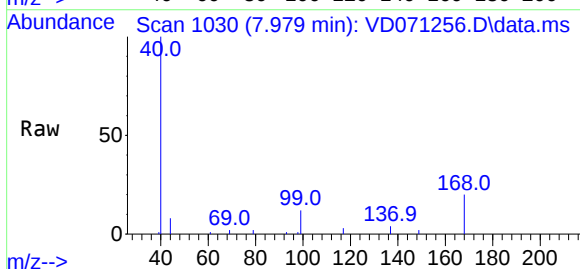
RT: 7.979 min Scan# 1030

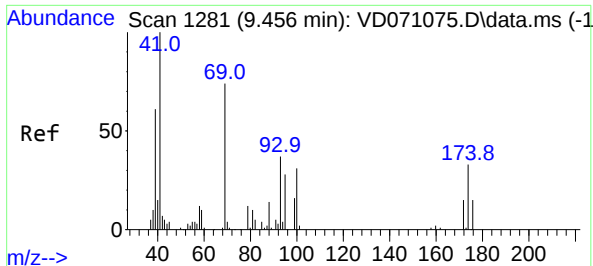
Delta R.T. -0.118 min

Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

Tgt Ion: 117	Resp:	498
Ion	Ratio	Lower Upper
117	100	
119	0.0	75.8 113.6#
121	0.0	23.6 35.4#





#48

Methyl methacrylate

Concen: 2.15 ug/l

RT: 9.467 min Scan# 11

Delta R.T. 0.011 min

Lab File: VD071256.D

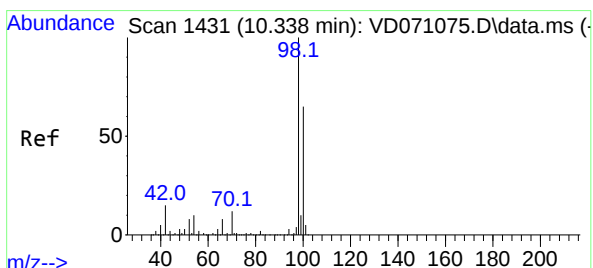
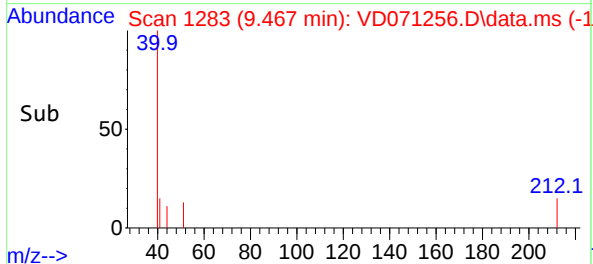
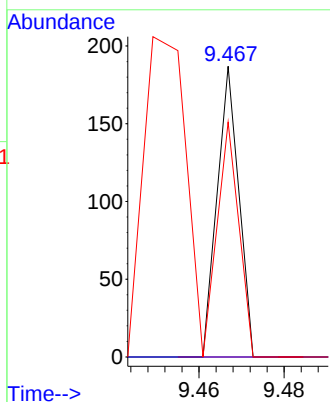
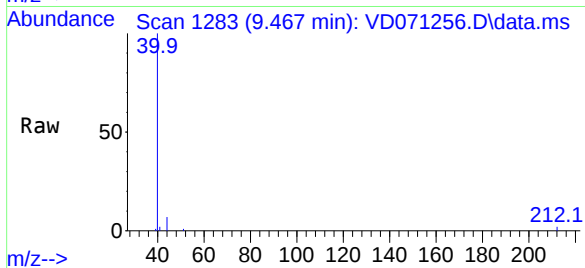
Acq: 10 Dec 2021 17:19

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 41	Resp: 66
Ion Ratio	Lower Upper
41	100
69	0.0 69.8 104.6#
39	297.0 35.6 53.4#



#50

Toluene-d8

Concen: 52.71 ug/l

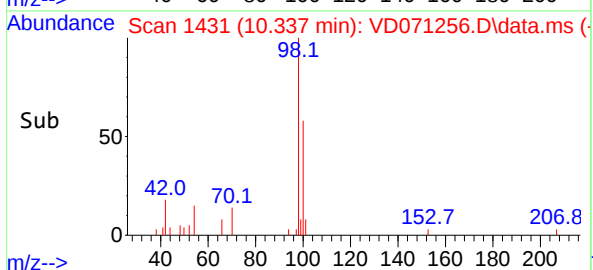
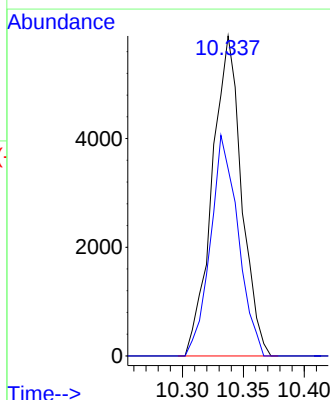
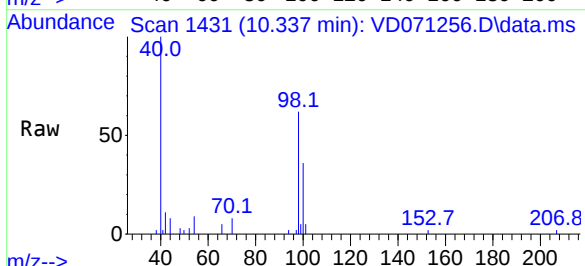
RT: 10.337 min Scan# 1431

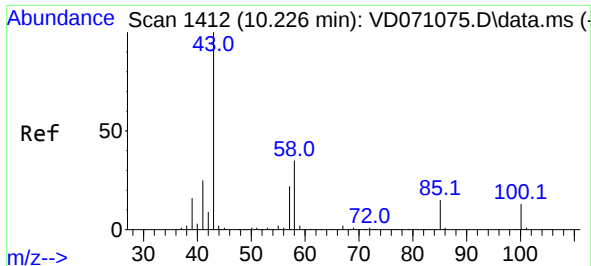
Delta R.T. -0.001 min

Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

Tgt Ion: 98	Resp: 9928
Ion Ratio	Lower Upper
98	100
100	64.7 51.8 77.6

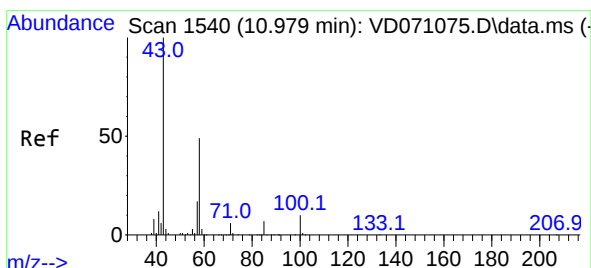
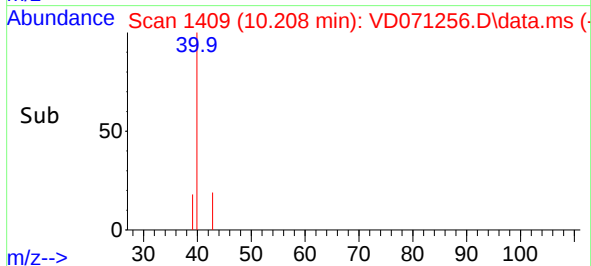
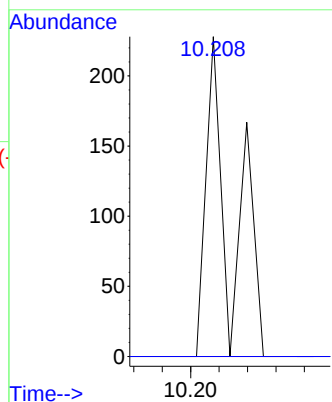
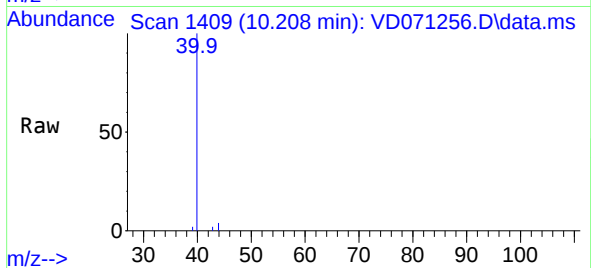




#51
4-Methyl-2-Pentanone
Concen: 34.10 ug/l
RT: 10.208 min Scan# 1412
Delta R.T. -0.018 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

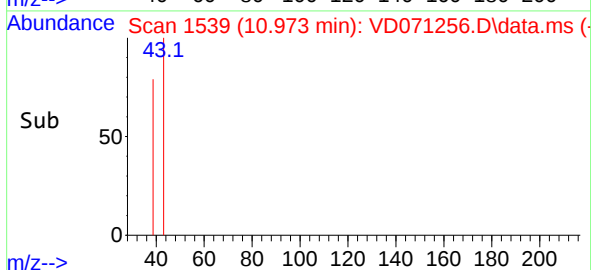
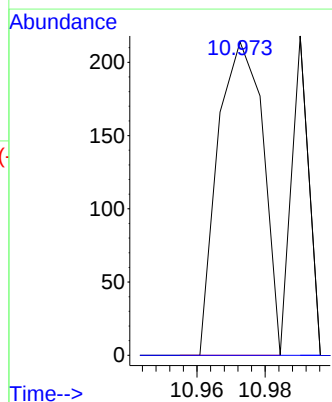
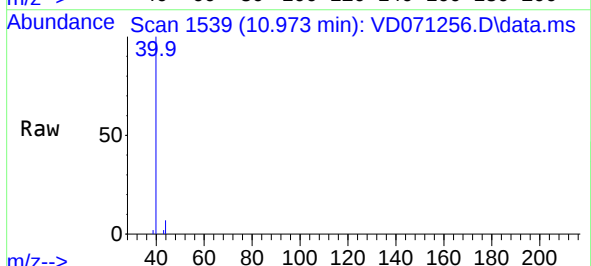
Instrument :
MSVOA_D
ClientSampleId :

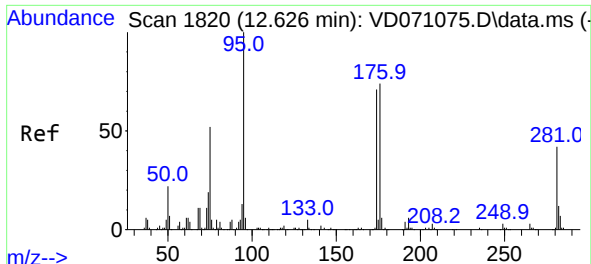
Tgt Ion: 43 Resp: 139
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 40.94 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.006 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 43 Resp: 197
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

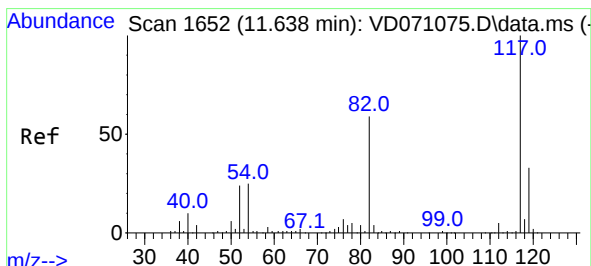
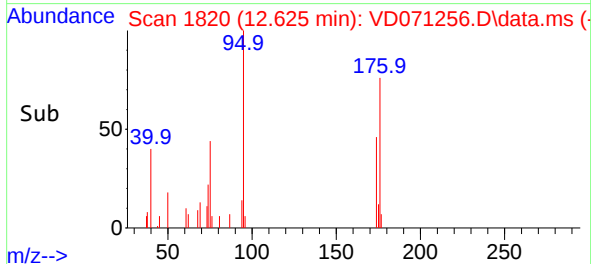
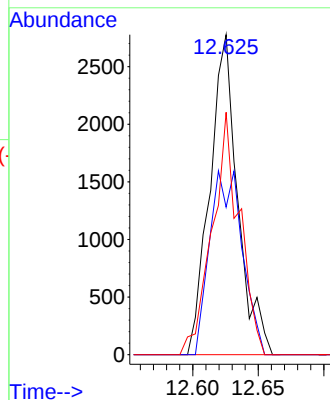
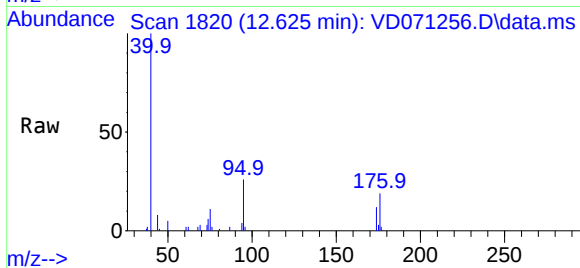




#62
4-Bromofluorobenzene
Concen: 63.13 ug/l
RT: 12.625 min Scan# 11
Delta R.T. -0.001 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

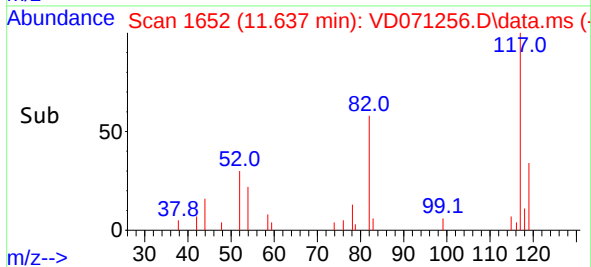
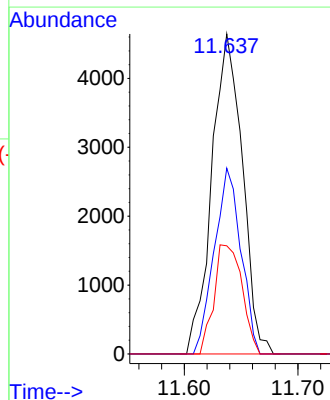
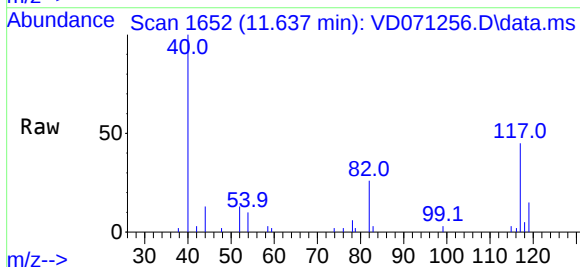
Instrument :
MSVOA_D
ClientSampleId :

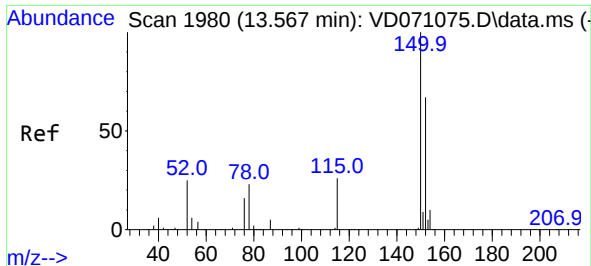
Tgt Ion: 95 Resp: 4122
Ion Ratio Lower Upper
95 100
174 66.8 0.0 159.4
176 73.9 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

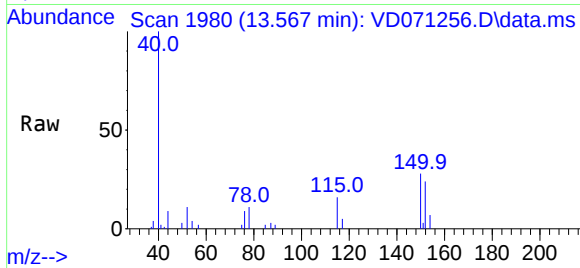
Tgt Ion: 117 Resp: 8684
Ion Ratio Lower Upper
117 100
82 58.1 44.7 67.1
119 33.8 26.2 39.4



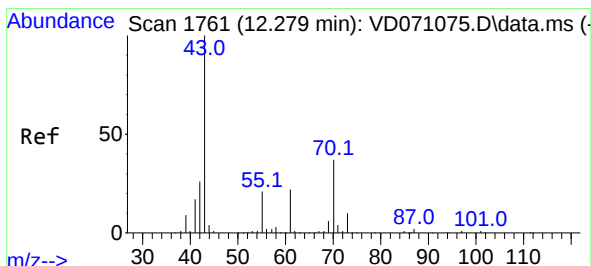
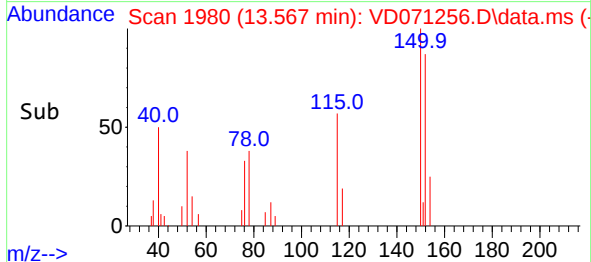
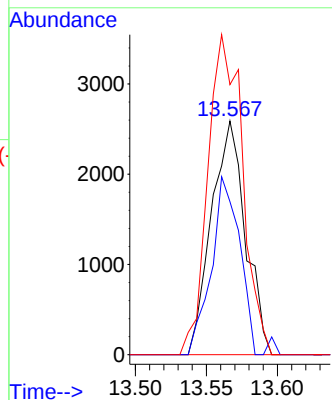


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Instrument :
MSVOA_D
ClientSampleId :

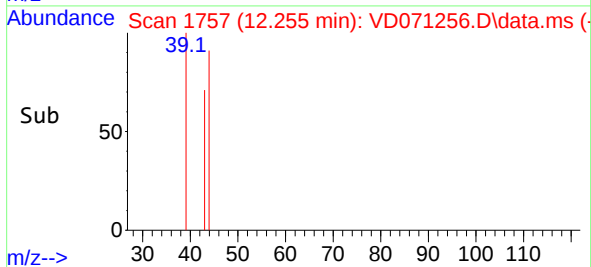
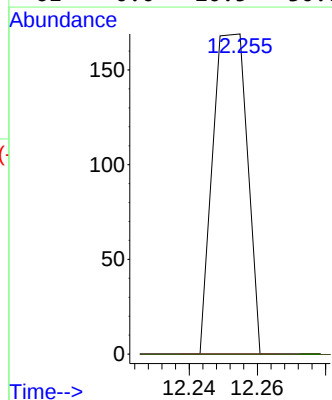
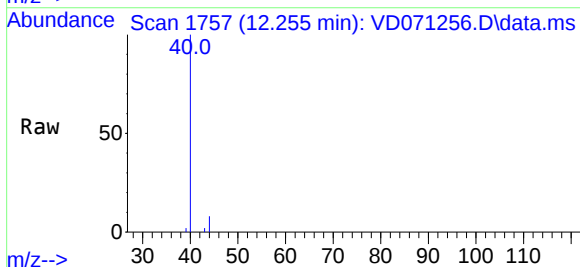


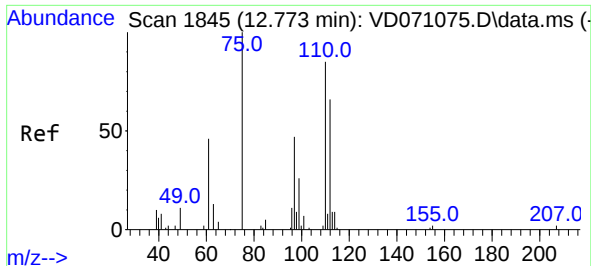
Tgt Ion:152 Resp: 4316
Ion Ratio Lower Upper
152 100
115 63.2 29.8 89.3
150 139.5 0.0 349.2



#74
N-ethyl acetate
Concen: 6.93 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 43 Resp: 119
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

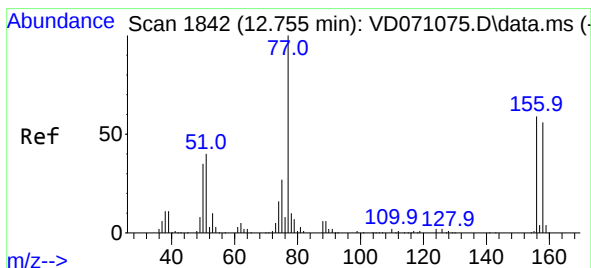
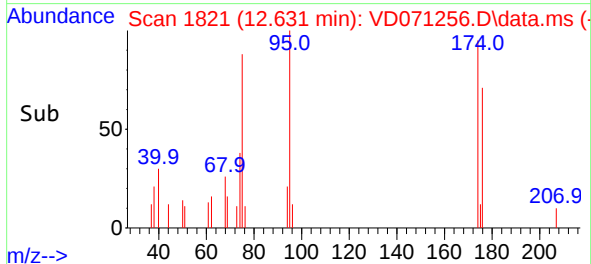
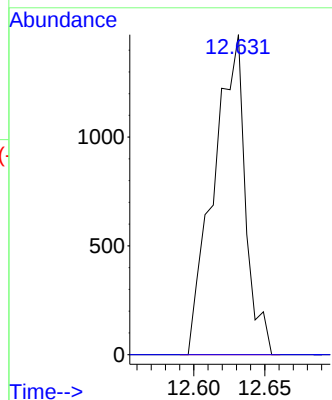
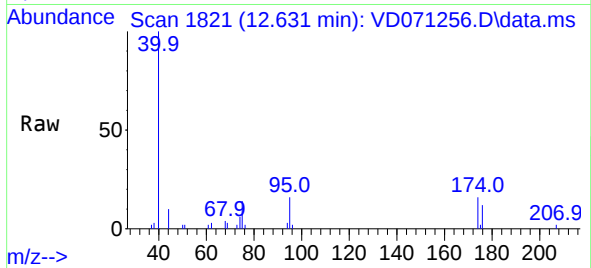




#76
1,2,3-Trichloropropane
Concen: 55.74 ug/l
RT: 12.631 min Scan# 1821
Delta R.T. -0.142 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

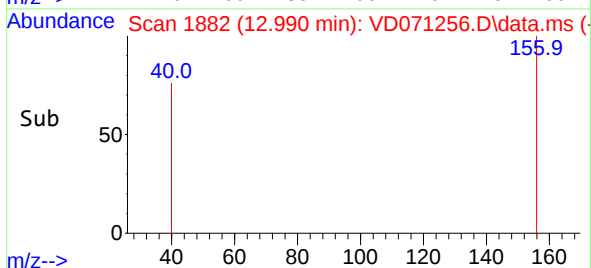
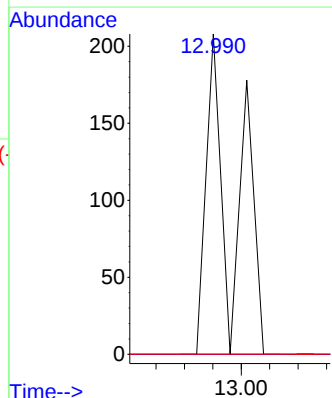
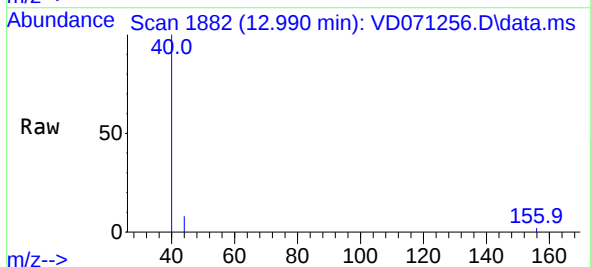
Instrument :
MSVOA_D
ClientSampleId :

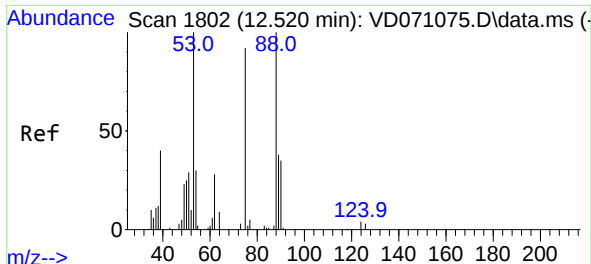
Tgt Ion: 75 Resp: 2292
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#77
Bromobenzene
Concen: 2.01 ug/l
RT: 12.990 min Scan# 1882
Delta R.T. 0.235 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 156 Resp: 136
Ion Ratio Lower Upper
156 100
77 0.0 96.6 289.8#
158 0.0 49.1 147.4#

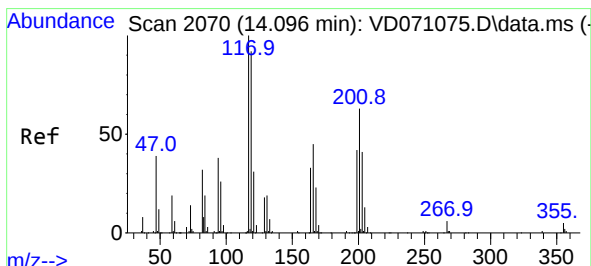
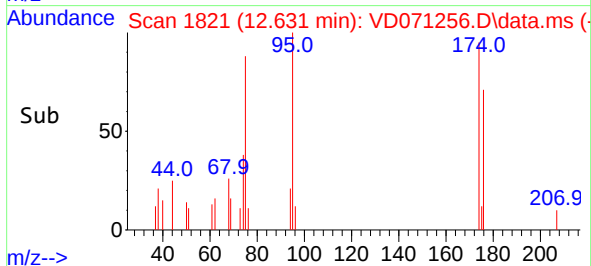
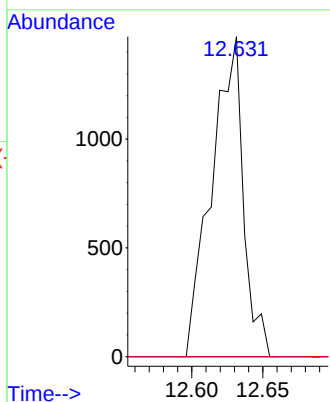
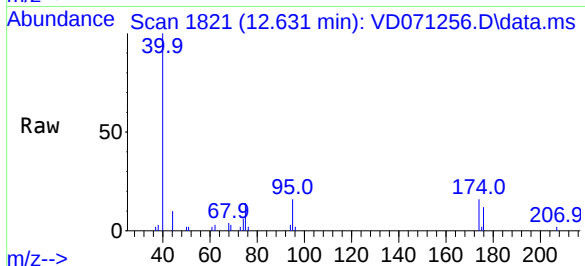




#81
trans-1,4-Dichloro-2-butene
Concen: 121.09 ug/l
RT: 12.631 min Scan# 11
Delta R.T. 0.111 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

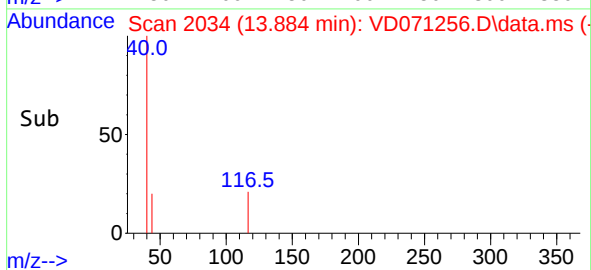
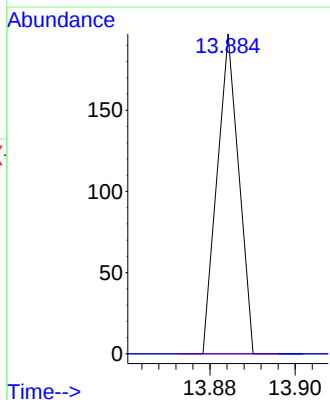
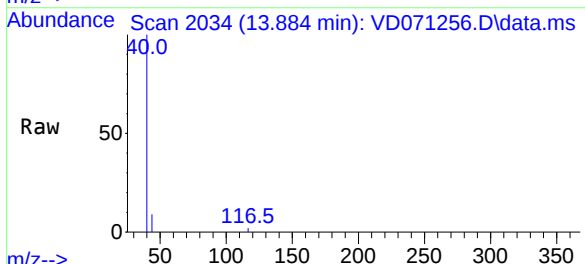
Instrument :
MSVOA_D
ClientSampleId :

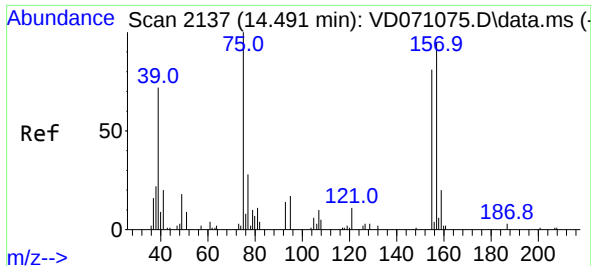
Tgt Ion: 75 Resp: 2292
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#



#90
Hexachloroethane
Concen: 1.34 ug/l
RT: 13.884 min Scan# 2034
Delta R.T. -0.212 min
Lab File: VD071256.D
Acq: 10 Dec 2021 17:19

Tgt Ion: 117 Resp: 70
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.16 ug/l

RT: 14.472 min Scan# 21

Delta R.T. -0.019 min

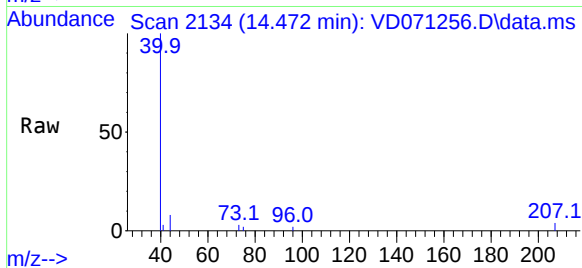
Lab File: VD071256.D

Acq: 10 Dec 2021 17:19

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 40.0 120.0#

157 0.0 49.8 149.3#

